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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,208	03/21/2006	Yoshihiro Ueno	15115/179001	2939
22511 7590 09/24/2007 OSHA LIANG L.L.P. EXAMINER				INER
1221 MCKINN		TON, ANABEL		
SUITE 2800 HOUSTON, T	X 77010		ART UNIT	PAPER NUMBER
			2875	
				<del></del>
			NOTIFICATION DATE	DELIVERY MODE
			09/24/2007	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant/o)				
		Applicant(s)				
Office Action Summary	10/560,208	UENO ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication app	Anabel M. Ton	2875				
Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time iii apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N.  nely filed  the mailing date of this communication.  D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 M	arch 2006.	•				
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
, —	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-6 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-6 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or		•				
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the original than the correction are considered to by the Examine.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1,3-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamashita et al (7,220,038).
- 3. Yamashita discloses a source of light; a light guide plate which confines light from the source of light spreads light like a plane, and permits light to go out from the light-leaving surface and from at least a portion of the surface on the side opposite to the light-leaving surface; and a prism sheet arranged facing the side opposite to the light-leaving surface; wherein deflecting patterns are formed on the surface of the light guide plate on the side opposite to the light-leaving surface for reflecting light that propagates through the light guide plate; light reflected by the deflecting patterns goes out from the light-leaving surface in a manner that the direction of a peak intensity thereof is nearly perpendicular to the light-leaving surface; light goes out from the surface on the side opposite to the light-leaving surface in a manner that the direction of a peak intensity thereof is aslant relative to a direction perpendicular to the surface of the opposite side; and light going out from the surface on the opposite side is deflected

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by the prism sheet in a manner that the direction of a peak intensity thereof is nearly perpendicular to the surface on the opposite side. (Figs 1-4)

- Wherein patterns of nearly a triangular shape in cross section are formed on the prism sheet, the patterns having, in cross section, a one-side vertical angle on the side of the source of light smaller than the one-side vertical angle on the opposite side. (Figs 2-6)
- Wherein the deflecting patterns are of nearly a triangular shape in cross section, and an angle of inclination of slopes of the deflecting patterns on the light-emitting surface of the light guide plate and on at least a partial region on the surface on the opposite side on the side remote from the source of light, is different from an angle of inclination of slopes of the deflecting patterns in other regions on the side remote from the source of light. (Figs 2-6)
- Wherein the deflecting patterns are of nearly a triangular shape in cross section, the slopes thereof assuming at least a partly curved surface on the side remote from the source of light, and a curvature of slopes of the deflecting patterns on the light-emitting surface of the light guide plate and on at least a partial region on the surface on the opposite side on the side remote from the source of light, is different from a curvature of slopes of the deflecting patterns in other regions on the side remote from the source of light. (Figs 2-6)

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## Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamashita (7,220,038).
- 6. Yamashita does not disclose a point source of light. The examiner takes Official Notice that the use of LEDs is old and well known in the illumination art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute an LED for the light source in the system of Yamashita. One would have been motivated since LEDs are recognized in the illumination art to have many desirable advantages, including reduced size, high efficiency, low power consumption, long life, resistance to vibrations, and low heat production, over other light sources.
- 7. With regards to the device comprising image display panels arranged facing the. light-leaving surface of the plane source of light of any one of claims 1 to 5 and facing the surface on the side opposite to the light-leaving surface, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include image display panels, since Yamashita is used for an LCD display and inherently all LCD displays comprise image display panes on the light leaving/ light emitting side.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anabel M. Ton whose telephone number is (571) 272-2382. The examiner can normally be reached on 08:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AMT

Anabel M Ton Examiner Art Unit 2875